Title (en)

MicroRNA (miRNA) miR-21 for diagnostic and therapeutic purposes

Title (de)

MicroRNA (MIRNA) MIR-21 für Diagnose- und Therapiezwecke

Title (fr)

Micro-ARN (MIARN) MIR-21 à des fins diagnostiques et thérapeutiques

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Application

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Abstract (en)

The invention relates to a promoter region of a microRNA, the use of a microRNA, in particular miR-21, related elements for diagnosis and manufacture of a medicament for treatment and/or prevention of fibrosis and/or fibrosis related diseases. The invention concerns antisense oligonucleotides against targets of miR-21. A cell deficient for miR-21, the promoter region and targets of miR-21 and a knock-out organism thereof are encompassed. The invention is directed to a method for diagnosing fibrosis and/or fibrosis related diseases and to a method for screening a pharmaceutically active compound for the treatment of fibrosis and/or fibrosis related diseases. The invention relates to compositions for use in the treatment, amelioration, and/or prevention of fibrosis. In certain embodiments, the compositions modulate the activity of a miRNA for the treatment, amelioration, and/or prevention of fibrosis. In certain embodiments, the compositions inhibit the activity of miR-21 for the treatment, amelioration, and/or prevention of fibrosis.

IPC 8 full level

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C-Set (source: EP US)

C12N 2310/321 + C12N 2310/3521

Citation (search report)

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- [A] CHENG YUNHUI ET AL: "MicroRNAs are aberrantly expressed in hypertrophic heart - Do they play a role in cardiac hypertrophy?", AMERICAN JOURNAL OF PATHOLOGY; [10640], AMERICAN SOCIETY FOR INVESTIGATIVE PATHOLOGY, US, vol. 170, no. 6, 1 June 2007 (2007-06-01), pages 1831 - 1840, XP009098830, ISSN: 0002-9440, DOI: 10.2353/AJPATH.2007.061170
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